2014 Highway Needs and Financing Interim Committee

Subgroups:

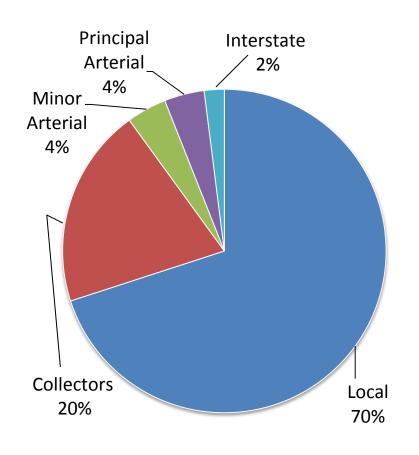
- Yankton
- Sioux Falls
- Watertown

- Aberdeen
- Belle Fourche
- Rapid City

Why Study Highway Needs and Financing?

- Chosen as the number one priority topic for an interim study by the Legislature
- \$55 billion worth of goods shipped to and from SD sites each year
- Federal Highway Trust Fund solvency issues and uncertainty surrounding future funding
- Rapid increases in road infrastructure costs
- Deteriorating future road conditions

Functional Classification Mileage



Local **Collectors** Interstate 3 Miles 13% 15% Minor **Principal** Arterial Arterial 34% 38%

All South Dakota Jurisdictions

State Highways

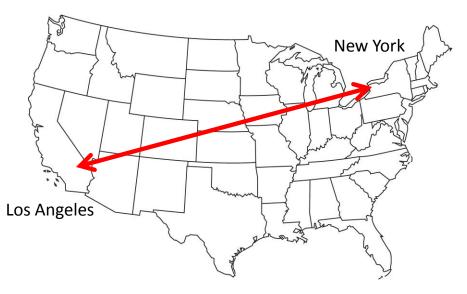
Approximately 83,650 Miles

Approximately 8,850 Miles

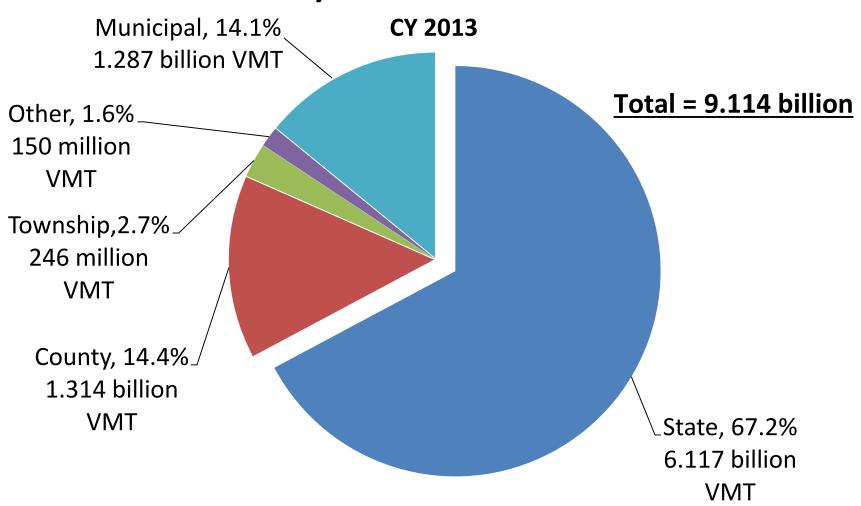
South Dakota's 83,650 miles of roads is equivalent to 3.5 times around the world

8,850 miles of state roads equals 3.6 trips between Los Angeles and New York

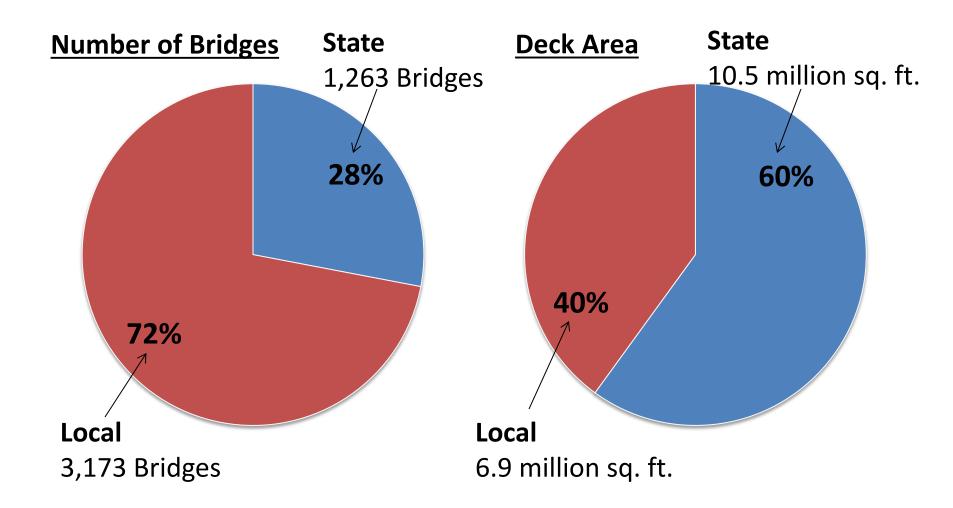




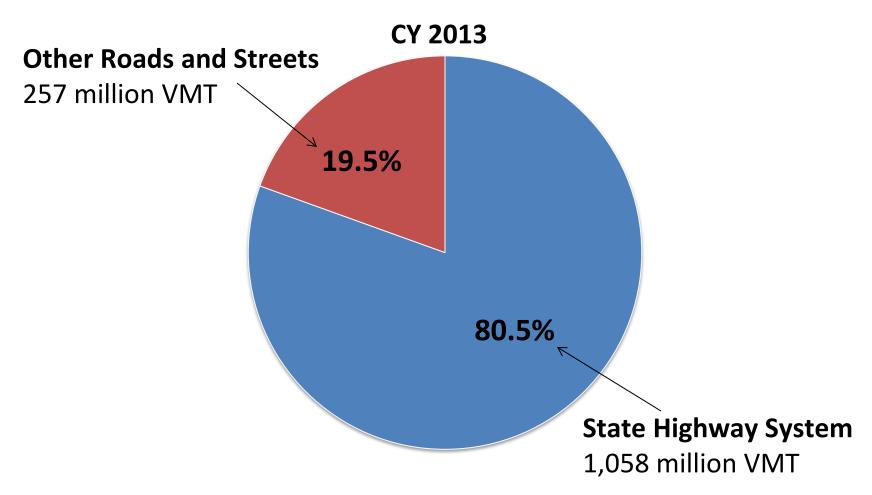
Annual Vehicle Miles of Travel By Jurisdiction



Comparison of State and Local Bridges

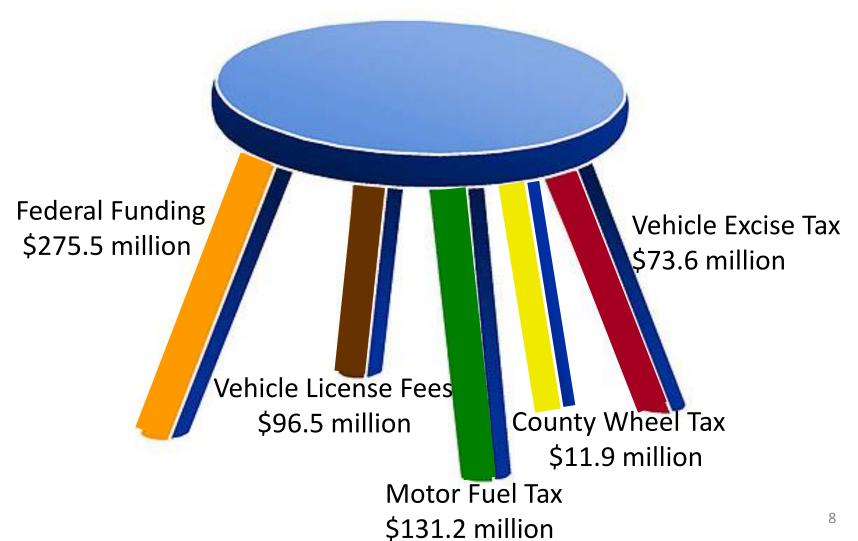


Heavy Truck Vehicle Miles of Travel By Jurisdiction

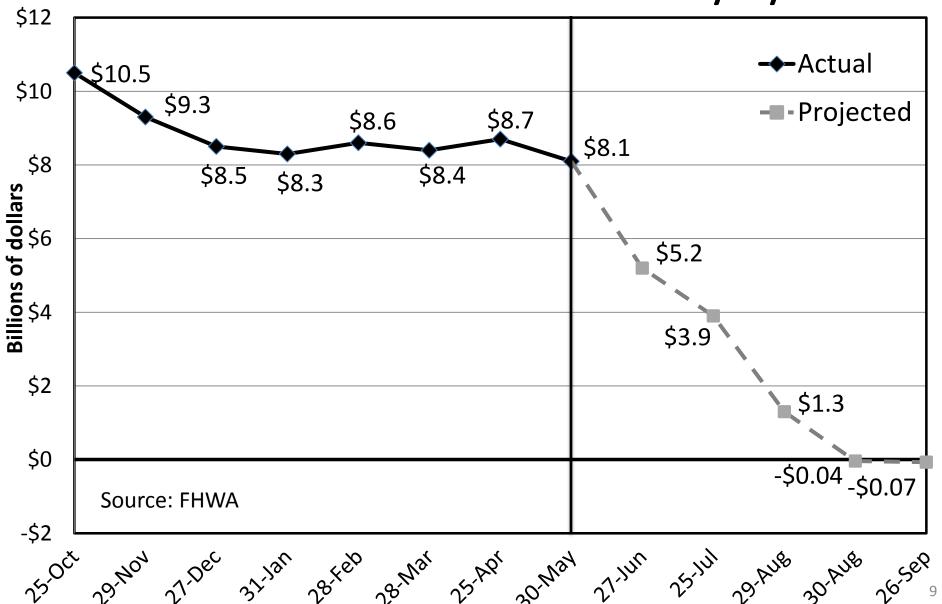


Revenue: The 5 Legged Stool

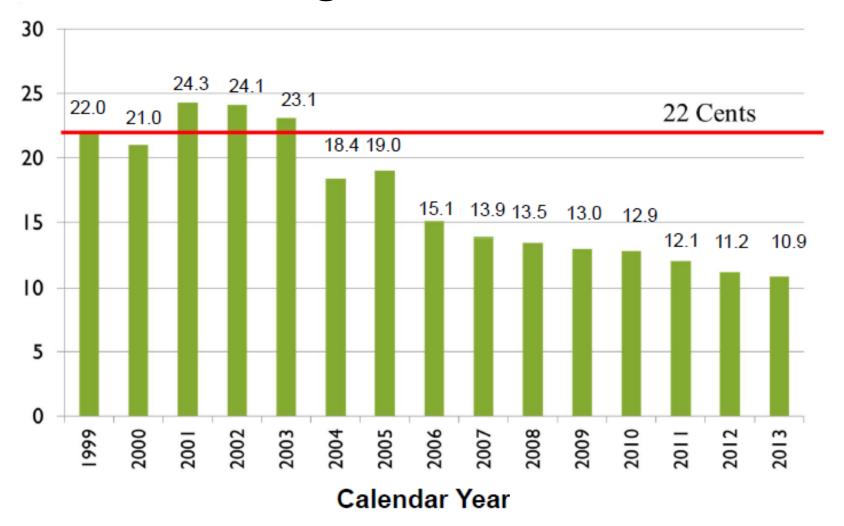




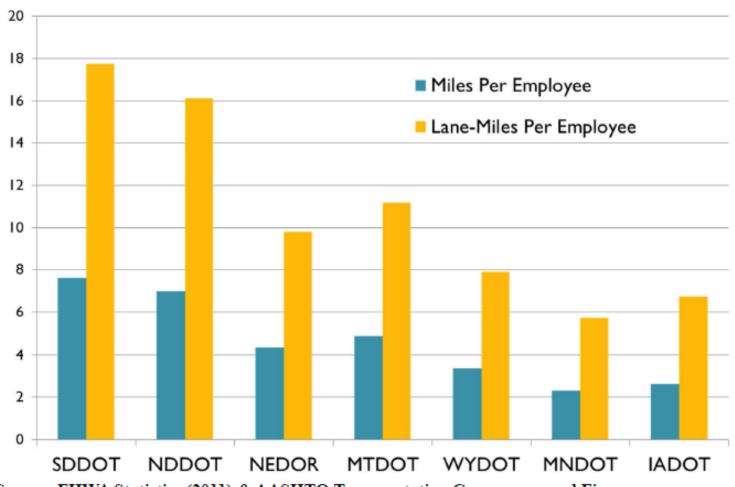
Federal Highway Trust Fund FY 2014 Projected Estimates for End-of-Month Cash Balances as of 5/30/2014



SD Gas Tax Purchasing Power Adjusted for the Inflation of Road & Bridge Construction



Size of State Highway System Compared to Number of DOT Personnel



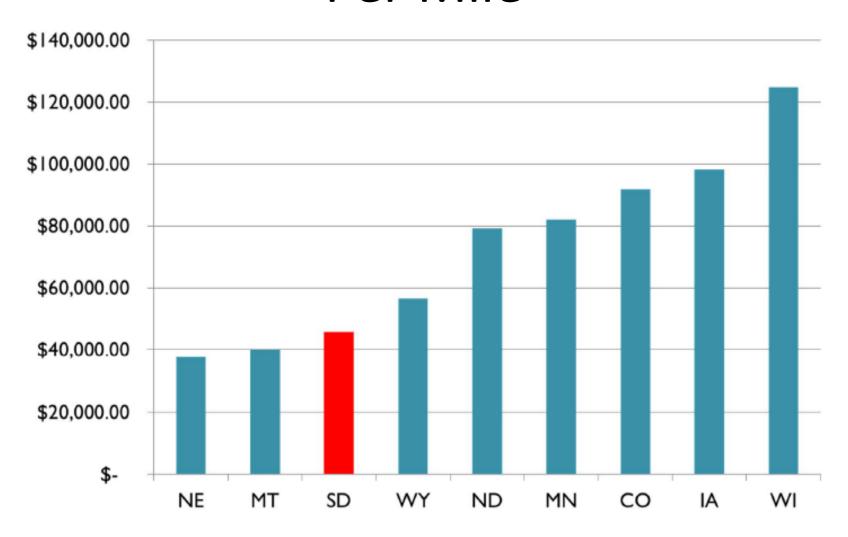
Source: FHWA Statistics (2011) & AASHTO Transportation Governance and Finance (2011)

Preliminary & Construction Engineering % of Construction

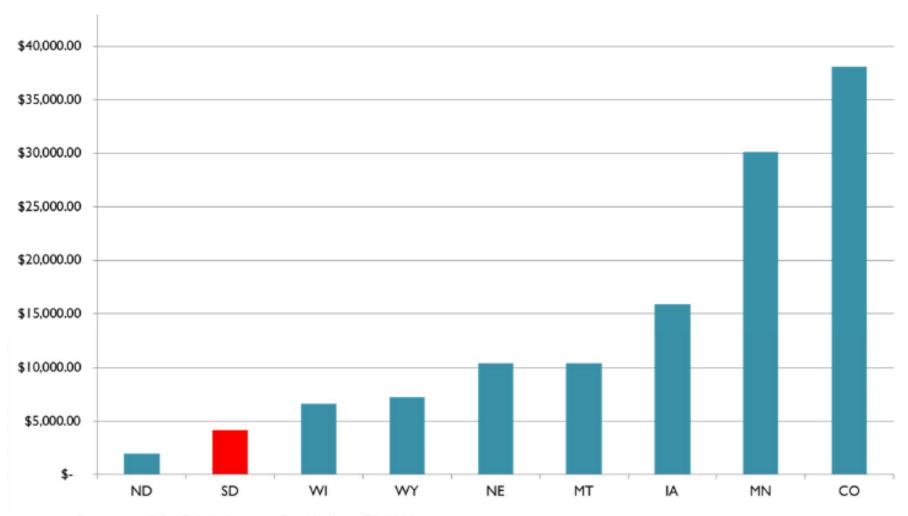


Source: 2012 Highway Statistics FHWA

Average Construction Investment Per Mile



Roadway Maintenance Cost Per Mile

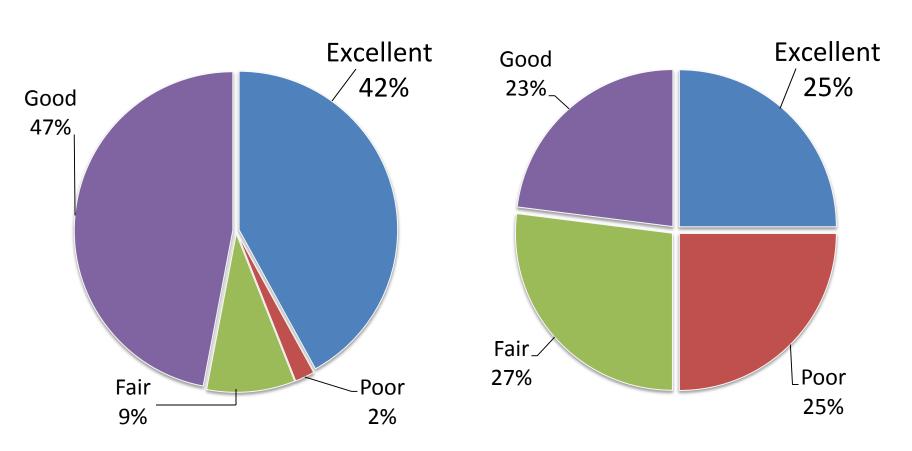


Source: 2012 Highway Statistics FHWA

Current and Future State Pavement Condition



2024 Projected Condition



57 County Self-Assessed Surveys

 Overall Condition of <u>Paved</u> Roads 	4.86 of 10
 Percent in Failing Condition 	20%
 Percent in Poor Condition 	19%
 Percent in Fair Condition 	32%
 Percent in Good Condition 	21%
 Percent in Excellent Condition 	9%
• Overall Condition of Gravel Roads	6.2 of 10
 Overall Condition of <u>Gravel</u> Roads Percent in Failing Condition 	6.2 of 10 9%
 Percent in Failing Condition 	9%
 Percent in Failing Condition Percent in Poor Condition 	9% 17%

Structurally Deficient

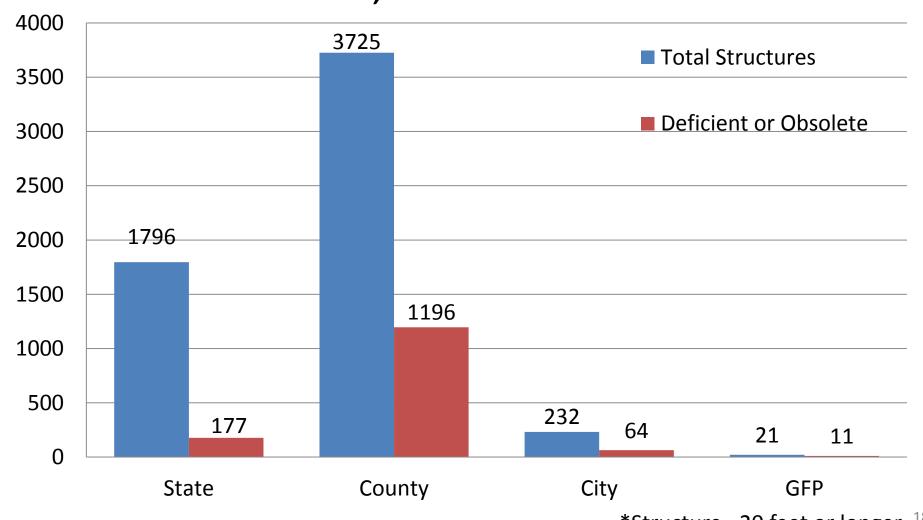
- Term is an indicator of when certain elements of a bridge need replacement or repair
- Classification does not necessarily mean bridge is unsafe
- 4.7% of state structures are structurally deficient
- 28% of county structures are structurally deficient

Functionally Obsolete

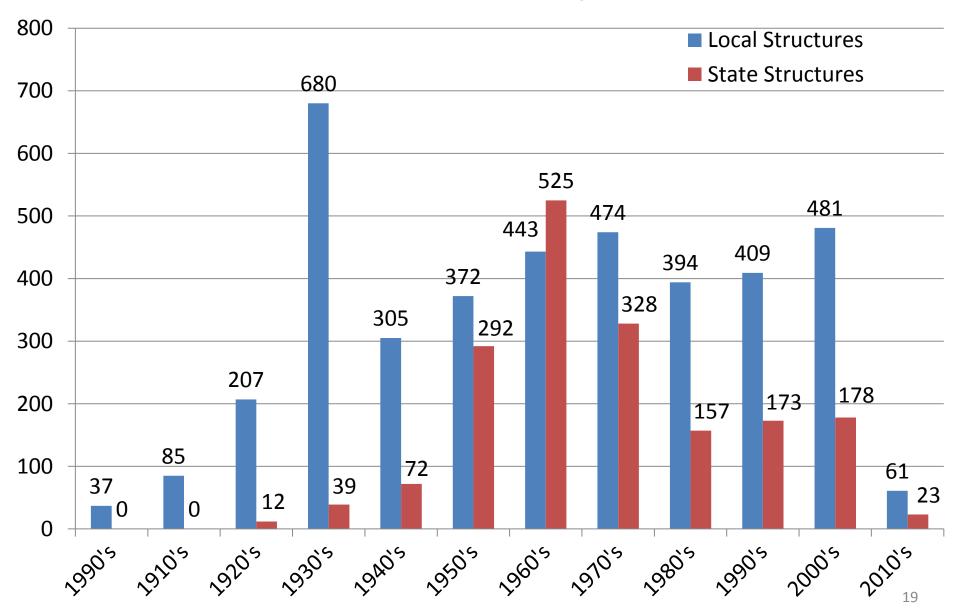
- Term refers to a substandard feature within a structure relative to its design
- Example: inadequate vertical or horizontal clearances
- Classification is not an indicator of safety
- 5.1% of state structures are functionally obsolete
- 3% of county structures are functionally obsolete

Total Number of Structures* vs. Structurally Deficient or Functionally Obsolete

1,448 = 25%



Structures Built by Decade



Importance of Maintaining Transportation Infrastructure

- Vital to South Dakota's economy and the movement of goods
 - Agriculture
 - Tourism
 - Business
- Critical to keep roads safe for residents, families, and movement of commercial goods

If you got it, a road brought it. Not much is parachuted

in!